## **CLAIMS**

- 1. A process for the preparation of a composition comprising a pentasil-type zeolite, which process comprises the steps of:
- a) hydrothermally treating an aqueous slurry comprising an aluminium source, a silicon source, a seeding material, and optionally a divalent metal source, thereby forming a pentasil-type zeolite and at least one other compound, and b) shaping the product of step a).
- 10 2. The process of claim 1 wherein the at least one other compound is selected from the group consisting of anionic clay, cationic clay, Si-Al cogel, and (pseudo)boehmite.
- 3. The process of claim 1 wherein the pentasil-type zeolite is a ZSM-type zeolite or zeolite beta.
  - 4. The process of claim 1 wherein a doped seed is used as the seeding material in step a).
- 5. The process of claim 1 wherein step a) comprises mixing of an aluminium source, a silicon source, a seeding material, and a divalent metal source in a slurry, and wherein the divalent metal source is a magnesium source.
- 6. The process of claim 6 wherein the magnesium source is selected from the group consisting of MgO, Mg(OH)<sub>2</sub>, hydromagnesite, magnesium carbonate, magnesium hydroxycarbonate, Mg-acetate, Mg-hydroxy-acetate, and mixtures thereof.

7. The process of claim 1 wherein the aluminium source is selected from the group consisting of aluminium trihydrate, flash-calcined aluminium trihydrate, boehmite, pseudoboehmite, aluminium sol, amorphous alumina, gel alumina, transition alumina, and mixtures thereof.

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- 8. The process of claim 1 wherein the silicon source is sodium (meta) silicate, silica sol, or a mixture thereof.
- 9. The process of claim 1 wherein step a) is performed continuously in a series ofat least two reaction vessels.
  - 10. The process of claim 1 wherein step a) comprises mixing of an aluminium source, a silicon source, a seeding material, and a divalent metal source in a slurry, thereby forming a pentasil-type zeolite and an anionic or cationic clay as the other compound.
  - 11. The process of claim 1 wherein step a) comprises mixing of a silicon source, an excess of aluminium source, and a seeding material, thereby forming a pentasil-type zeolite and (pseudo)boehmite as the other compound.

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